HCTM CO.,LTD.

GasSens High Pressure Gas

NO, Diffuser! YES, Direct Connection!!!

The GasSens is a laser-based, gas-only solution that directly samples pressurized process gases at actual line pressure. It measures particle sizes from 0.1 µm to 5.0 µm across multiple channels, delivering performance compliant with ISO-21501-4. A stable 0.1 CFM (2.83 L/min) sampling flow and passive cavity optical design ensure accurate and repeatable measurements in high-pressure environments. Its portable design allows one instrument to serve multiple processes and gas lines, reducing equipment investment and improving operational efficiency. Particle trend data enables early detection of process upsets and quantitative assessment of system changes. The system provides a reliable standard for gas distribution qualification and continuous process gas monitoring.



Features

- Size range from 0.1 ㎛ to 5.0 ㎛
- Channel configurations : 8 CH
- Supported Gas Type: He, O_2, CO_2, Ar, N_2, CDA
- 90° Light scattering method
- Complies with all requirements of ISO 21501-4
- 0.1 CFM (2.83 L/min) flow rate
- 7 inch LCD Display for Real-time Monitoring
- Compliant with IPC-A-610 and IPC/WHMA-A-620

Benefits

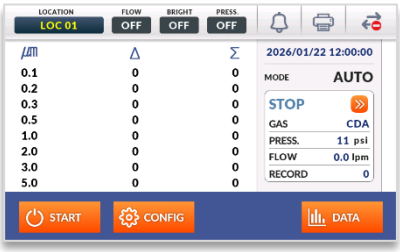
- Portable instrument for multiple processes and gas lines
- Optimized exclusively for gas particle monitoring
- Direct measurement at actual line pressure
- Faster qualification of gas distribution systems
- Early detection of process upsets and contamination
- Reliable, repeatable particle sizing
- Integrated data storage, analysis, reporting, and alarms

Applications

- Process gas monitoring
- High-pressure gas solutions
- Qualification of gas distribution systems

Display

- Main Screen



- Data Table List

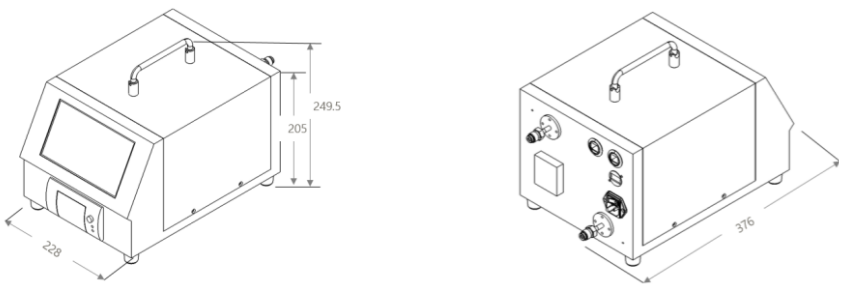


GasSens : High Pressure Gas Particle Sensor

Specifications

Model	GasSens
Particle channel size (8CH)	0.1, 0.2, 0.3, 0.5, 1.0, 2.0, 3.0, 5.0 ㎛
Counting efficiency	50 % at 0.1 ㎛ (per ISO-21501-4 & JIS 9921B)
Concentration limits	14,500,000 particles/ft^3 @ 10% coincidence loss
Zero count level	≤ 7 counts/㎥ (per ISO-21501-4 & JIS 9921B : ≤ 7 counts/㎥)
Flow rate	0.1 CFM (2.83 L/min)
Sampling time	1 sec ~ 24 hrs (User selectable)
Display	7 inch LCD touch screen display
Printer	built-in thermal printer
Supported Gas Type	He, O_2, CO_2, Ar, N_2, CDA
Light source	Laser diode
In / Outlet fitting	1/4" VCR male connector
Communication Modes	Ethernet (TCP/IP, ModbusTCP), RS-232C
Data storage	100,000 samples
Dimension (LWH)	22.8 x 37.6 x 20.5 cm (8.97 x 14.80 x 8.07 in)
Weight	8.08 kg
Pressure	Recommended Operating Pressure: 10 - 100 psi (Max 150 psi)
Power	AC 220–240 V, 50/60 Hz
Enclosure	304 stainless steel
Operational Environment	0 ~ 30 ℃, 1 ~ 95 %RH, Non condensing
Warranty	2 year

Drawing



GasSens : High Pressure Gas Particle Sensor

Manufactured by HCTM CO., LTD.

74, Seoicheon-ro 578 beon-gil, Majang-myeon Icheon-si, Gyeonggi-do, South Korea 17383

TEL +82-31-6456365 FAX +82-31-6456385 E-MAIL product@hctm.co.kr www.hctm.co.kr / www.particle-science.com

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